SERVICE MANUAL

FISHER

CR-5115 (UM)

CASSETTE DECK

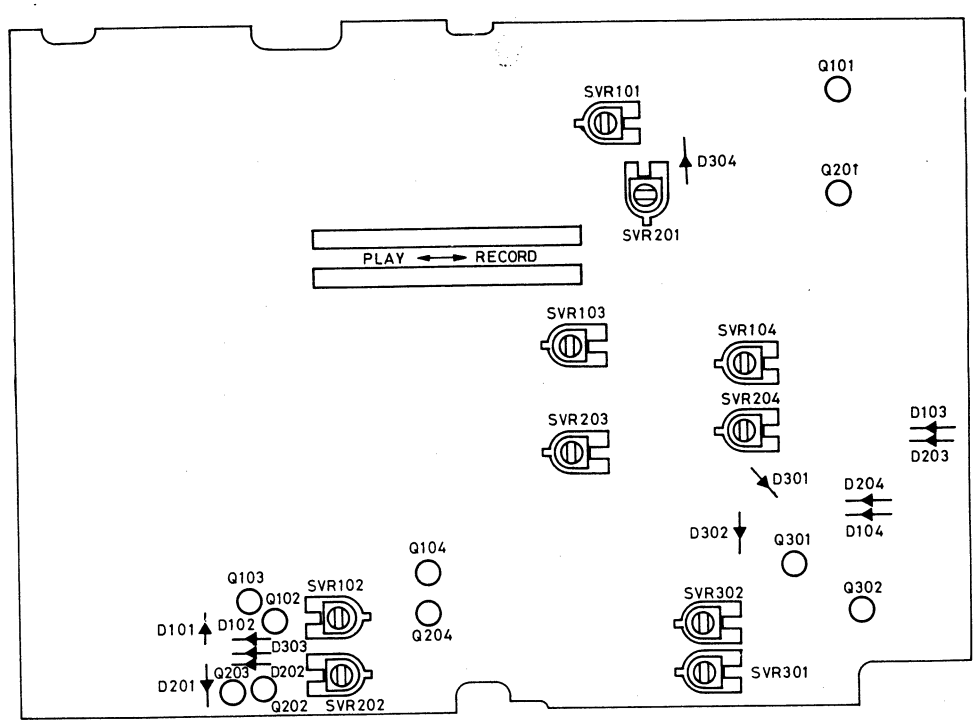
THE FIRST NAME IN HIGH FIDELITY

SPECIFICATIONS

Tape	CrO_2 Tape, FeCr Tape and Normal Tape
Recording System	AC Bias, 1/4 Track Stereo
Erasing System	AC Erase 1/2 Track
Monitor System	DC Monitor
Tape Speed	1-7/8 ips. (4.75 cm/s)
Rewind & Fast Forward Time	90 sec. (C-60)
Speed Accuracy (PLAY)	±1% (Nominal) ±2% (Limit)
Wow & Flutter	0.07% WRMS (Nominal)
Frequency Response (PLAY)	MTT-116U (Normal) MTT-116K (CrO_2,FeCr) ... Tape
NORMAL	31.5 ~ 12.5KHz $^{+5}_{-4}$ dB (Nominal) 100 ~ 6.3KHz ±3dB (Limit)
CrO_2, FeCr	31.5 ~ 12.5KHz $^{+5}_{-4}$ dB (Nominal) 100 ~ 6.3KHz ±3dB (Limit)
NORMAL	MONITOR 600~4KHz (Nominal) ±2dB (Limit) ±5dB 300~6KHz (Nominal) ±3dB (Limit) $^{+5}_{-7}$dB
Signal to Noise Ratio	DOLBY ON: 58dB (Nominal) 52dB (Limit) OFF: 50dB 44dB
Erase Ratio	70dB (Nominal) 60dB (Limit)
Input	MIC: 1.2K ohms LINE IN: 80K ohms
Output	LINE OUT: 3K ohms HEADPHONES: 8 ohms to 10K ohms

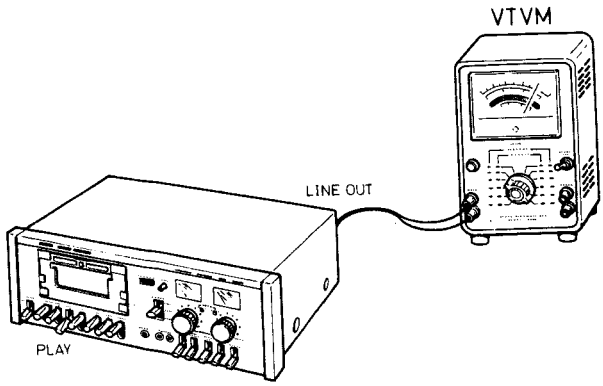
IC	2
Transistors	24
Diodes	15
Dimensions	414(W) x 300(D) x 154(H) mm
Weight	Approx. 5.4 kg
Power Source	AC 110, 125, 220V 50Hz

PARTS LOCATIONS

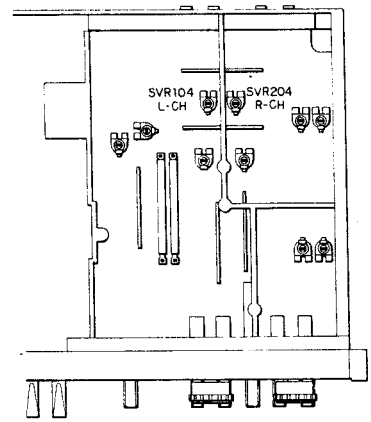


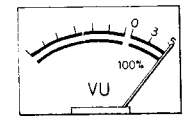
No.	Item	Test tape	Rec. Play	Tape SW	Monitor SW	Input select SW	Dolby FM SW	Dolby N.R. SW	Limitor SW	Rec. vol.	Dolby FM vol.	Input terminal	Input freq.	Input level	Output terminal	Adjustment & ratings
1	Head azimuth	VTT 658	Play	(CrO_2) (FeCr) NOR.	SOURCE	LINE IN	OFF	OFF	OFF	MAX.	MAX.	——	——	——	LINE OUT	Adjust azimuth screw to obtain a maximum output of 10 KHz for both L & R channels. After adjustment, set tape switch to Fe-Cr & CrO_2. Make sure that at each switch position 10 KHz output drops by 4dB.
2	Playback gain	MTT-150 Dolby tape	Play	NOR.	SOURCE	LINE IN	OFF	OFF	OFF	MAX.	MAX.	——	——	——	LINE OUT	Adjust SVR101 & 201 to obtain an output of 1.1V ± 0.5dB.
3	Meter	MTT-150 Dolby tape	Play	NOR.	SOURCE	LINE IN	OFF	OFF	OFF	MAX.	MAX.	——	——	——	Meter	Following adjustment of playback gain, adjust SVR104 & 204 until meter stands at 5dB.
4	Rec. volume		Rec.	NOR.	SOURCE	LINE IN	OFF	OFF	OFF	Adj.	MAX.	LINE IN	1K	–20dB	Meter	Adjust REC VOL until meter reading becomes OVU (at an output level of 1.1V).
5	Bias	BASF L.H super	Rec. Play	NOR.	SOURCE	LINE IN	OFF	OFF	OFF	Same item 4	MAX.	LINE IN	1K,10K	–44dB	LINE OUT	Record & then play back 1KHz & 10KHz signals. Adjust SVR301 & 302 until output difference becomes 0 ± 1.5dB.
6	Monitor Head azimuth	BASF L.H super	Rec.	NOR.	TAPE	LINE IN	OFF	OFF	OFF	Same item 4	MAX.	LINE IN	10K	–44dB	LINE OUT	Adjust azimuth screw for monitor head to obtain a maximum output of 10KHz for both L & R channels.
7	Recording current	BASF TP-18CrO_2	Rec. Play	CrO_2	SOURCE	LINE IN	OFF	OFF	OFF	Same item 4	MAX.	LINE IN	1K	–20dB	LINE OUT	Set input level to OVU when recording. Afterwards, adjust SVR102 & 202 to obtain an output of OVU during playback.
8	Monitor Amp. gain	BASF TP-18CrO_2	Rec.	CrO_2	TAPE	LINE IN	OFF	OFF	OFF	Same item 4	MAX.	LINE IN	1K	–20dB	LINE OUT	Adjust SVR103 & 203 to obtain an output of OVU when monitoring tape.

HEAD AZIMUTH ADJUSTMENT

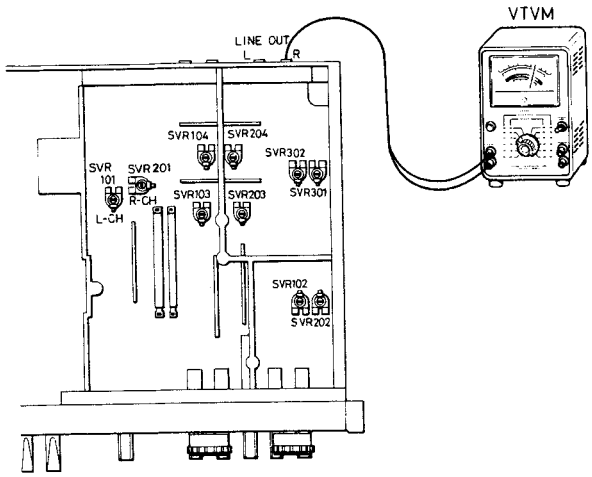


METER ADJUSTMENT

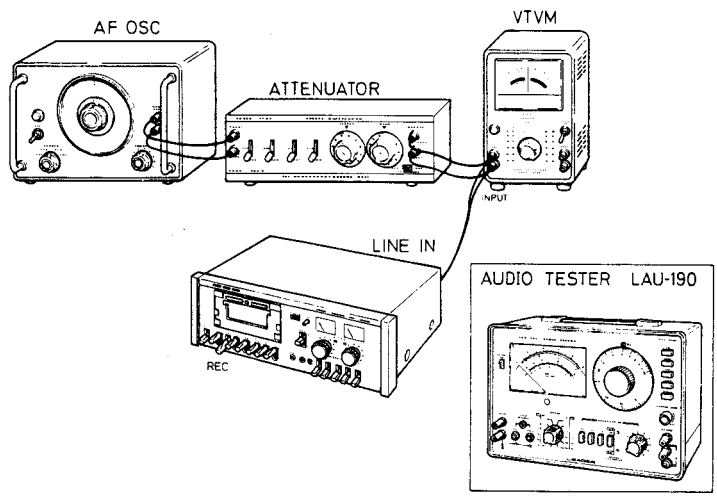




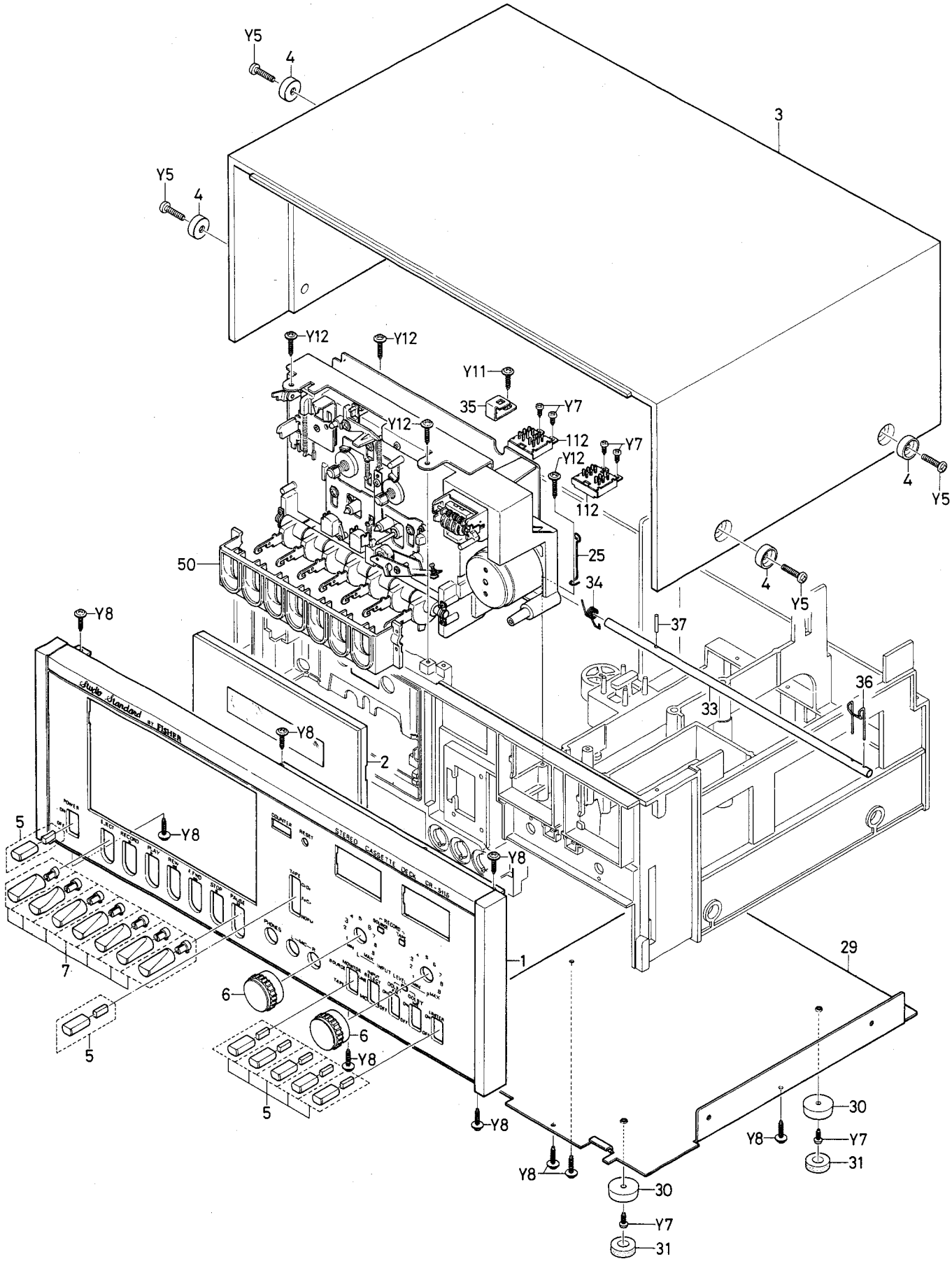
PLAYBACK GAIN ADJUSTMENT



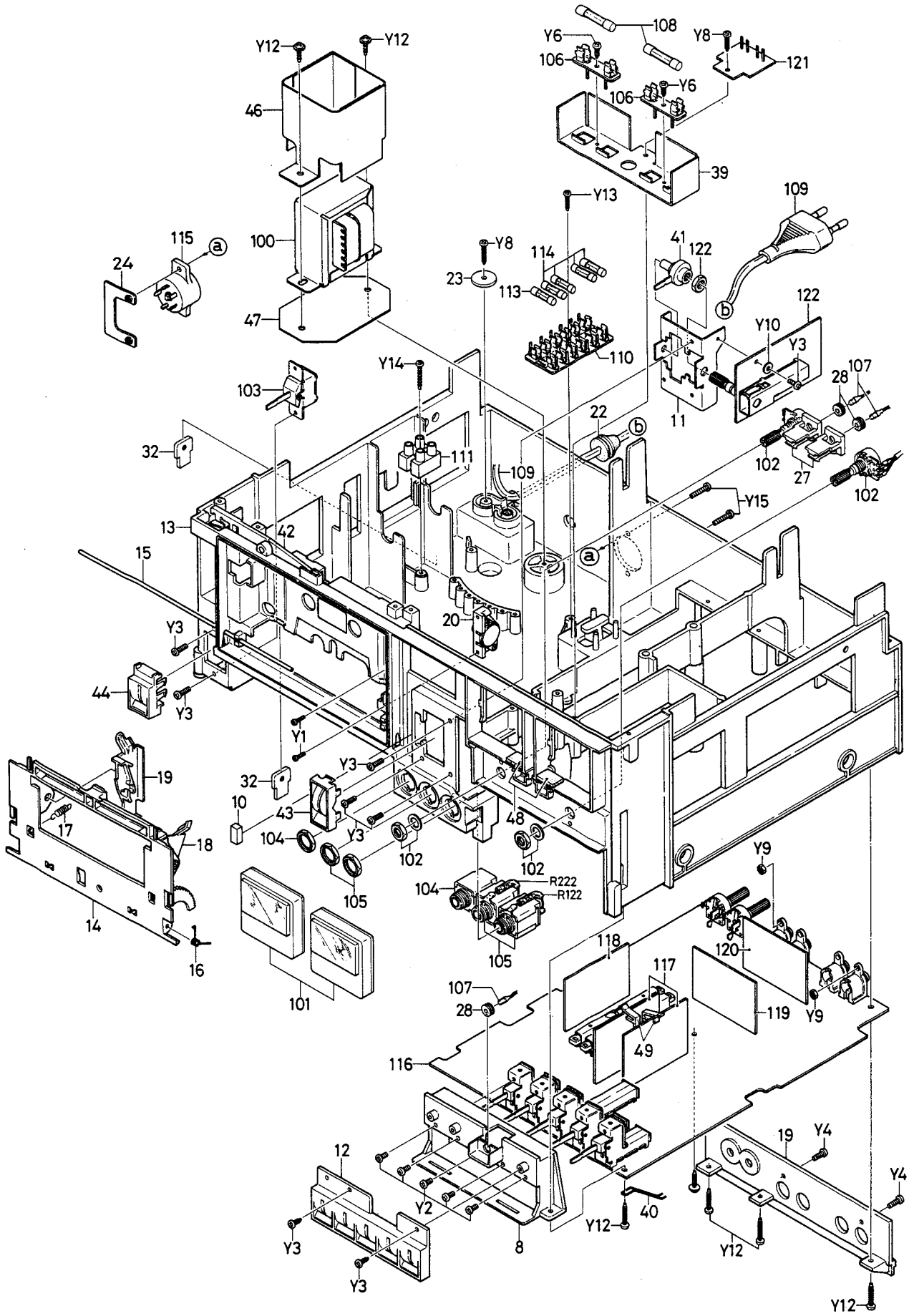
REC VOL ADJUSTMENT
MONITOR HEAD AZIMUTH ADJUSTMENT



EXPLODED VIEW



EXPLODED VIEW



PARTS LIST

Key. No.	Part No.	Description	Q'ty
PACKING			
	141-6-132T-80600	Individual Carton	1
	141-6-144T-33100	Styrol Filter, Side Pad	2
	141-6-231T-05801	Inner Polyetylene Bag, Set	1
	141-6-231T-06000	Inner Polyetylene Bag, Printed Matter	1
	141-6-231T-10200	Polyetylene Bag, Power & Lead Assembly	2
	141-6-411T-99200	Instruction Booklet, English	1
	141-6-411T-99300	Instruction Booklet, German	1
	141-6-410T-01600	Instruction Booklet, French	1
	141-6-479T-18400	Label	1
	141-2-141T-49400	Rating Plate	1
	141-6-479T-25400	Label	1
	141-6-479T-23600	Label	1
	141-6-479T-08300	Label, Dolby	1
ACCESSORY			
	4-243T-13301	Lead Assembly	2
CABINET			
1	141-0-122T-01600	Front Panel Assembly	1
2	141-0-124T-04600	Top Lid Assembly	1
3	141-2-111T-29500	Cabinet	1
4	141-2-135T-41400	Cover, Cabinet Mtg.	4
5	141-0-156T-00500	Cup Knob Assembly	7
6	141-0-163T-12900	Rotary Knob Assembly	2
7	141-0-156T-00700	Cup Knob Assembly	7
8	141-2-365T-35200	Bracket, Lever Switch Mtg.	1
9	141-2-367T-29200	Bracket, Rear Jack Mtg.	1
10	141-2-352T-20201	Spacer, Shaft (15) Support	1
11	141-2-365T-36000	Bracket, Tape Select Switch Mtg.	1
12	141-2-135T-45300	Cover, Lever Switch Mtg.	1
13	141-2-311T-23501	Chassis	1
14	141-2-224T-08500	Bracket, Top Lid (2) Mtg.	1
15	141-2-753T-14500	Shaft, Top Lid Fulcrum	1
CHASSIS			
16	141-2-851T-99600	Coil Spring, Top Lid Opener	1
17	141-2-851T-99800	Coil Spring, Holder Mtg.	2
18	141-2-331T-02901	Holder, Right Side of Top Lid	1
19	141-2-331T-03001	Holder, Left Side of Top Lid	1
20	141-0-581T-00600	Gear Assembly	1
21	141-2-157T-25900	Inlay, Cassette Reflector	1
22	141-2-445T-16200	Rubber Cushion, AC Cord Fixer	1
23	141-2-453R-10500A	Plastic Washer, AC Cord Fixer	1
24	141-2-411T-08100	Plate Nut, Voltage Select Switch Mtg.	1
25	141-2-464T-01101	Fixer, Mechanism P.C.B Lead Wire Dressing	1
26	141-2-472T-02000	Lug, VR Earth	2
27	141-2-374T-10900	Bracket, Pilot Lamp Mtg.	2
28	141-2-445T-05000	Rubber Cushion, Pilot Lamp Mtg.	3
29	141-2-125T-09300	Bottom Lid	1
30	141-2-174T-05100	Stand, Bottom Lid Mtg.	2
31	141-2-441T-05000	Felt Cushion, Stand Mtg.	2
32	141-2-411T-07600	Plate Nut, Cabinet Mtg. with Chassis	2
33	141-2-753T-08900	Shaft, Record Select	1
34	141-2-852T-35800	Wire Spring, Record Shaft Restore	1
35	141-2-731T-46000	Slide, Record Slide Mtg.	1
36	141-2-852T-36100	Wire Spring, R/P Switch Select with Shaft Mtg.	1
37	141-2-488T-01304	Spring Pin, Shaft (33) Mtg.	1
39	141-2-329T-04100	Reflector, Meter	1
40	141-2-852T-36600	Wire Spring, AMP P.C.B Mtg. for Earth	1
41	141-2-741T-97100	Lever, Bracket (11) Mtg.	1
42	141-2-741T-96600	Lever, Top Lid Lock	1
43	141-2-135T-45100	Cover, Tape Select Switch	1
44	141-2-135T-45200	Cover, Power Switch Front	1
46	141-9-322T-00200	Shield Plate Assembly, P.T. Mtg.	1
47	141-2-322T-34100	Shield Plate, P.T Mtg.	1
48	141-2-447T-61600	Cushion 15x12x1mm, Meter Chassis Mtg.	2
49	141-2-464T-22800	Fixer, P.C.B Mtg.	2
50	141-2-135T-45400	Cover, Push Button Lever	1

Key. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
100	4-251T-73900	Power Transformer	1
101	4-511T-07600	Meter	2
102	4-222T-42790	Valiable Resistor 10KA, Record Volume	2
103	4-231T-65600	Switch, Power	1
104	4-235T-30500	Socket, Headphone	1
105	4-235T-30600	Socket, Microphone	2
106	141-2-383T-03371	Fuse Holder, Meter Lamp	2
107	4-612T-06482	Pilot Lamp, Tape & Source & Dolby Lamp	3
108	4-612T-06000	Pilot Lamp, Meter Lamp	2
109	4-243T-77172	Power Supply Cord	1
110	141-9-383T-00400	Fuse Holder Assembly	1
111	4-237T-06900	Terminal Board, Power Cord Connect	1
112	4-231T-43000	Switch, Muting	2
113	4-234T-02171	Fuse 630mA	1
114	4-234T-04001	Fuse 200mA	4
115	4-231T-53600	Switch, Voltage Select	1
R122 222		Resistor 1.2K ohm ±10% ¼W, Microphone Socket	2
MAIN AMP PCB ASSY			
116	140-9-230T-50500	Printed Circuit Board Assembly, Main AMP	1
	4-222T-51800	Variable Resistor 10kB, Dolby FM	2
SVR101,102 103,104 201,202 203,204	4-222T-39475	Variable Resistor 10kB, Play Monitor Record Meter Adjust	8
SVR301,302	4-222T-39478	Variable Resistor 100kB, Bias Adjust	2
	4-258T-12800	OSC Coil	1
L101,201	4-252T-05600	Choke Coil 36mH, Bias Trap	2
L102,202	4-253T-04200	Choke Coil 3.3mH	2
S1-1~1-9	4-231T-45673	Switch, R/P Select	1
S2-1~2-9	4-231T-45600	Switch, R/P Select	1
S3-1~3-4 S6-1~6-4 S4-1~4-2 S7-1~7-2	4-231T-58972	Switch, Monitor & Dolby N.R.	2
S5-1~5-8	4-231T-59072	Switch, Input Select & Limiter	2
	4-231T-60400	Switch, Dolby FM	1
	4-235T-36400	Socket, Dolby P.C.B Mtg.	2
	4-235T-36471	Socket, Monitor P.C.B Mtg.	1
	4-235T-36472	Socket, Pre-AMP & Line Out P.C.B Mtg.	2
	4-235T-23700	Socket, Line In & Line Out	4
	4-236T-10273	Plug, R/P Head 6P	1
	4-236T-10200	Plug, Monitor Head 3P	1
	4-237T-00100	Terminal	37
Q101,201		Transistor 2SC1571 G	2
Q102,202		Transistor 2SC945 Q	2
Q103,104 203,204 302		Transistor 2SC536AUD G	5
Q301		Transistor 2SC1383 R or 2SD400 E	1
D101,102 103,104 201,202 203,204		Diode 1S188 AM	8
D301		Diode DS17	1
D302		Diode WZ-162	1
D303,304		Diode DS-442	2
CAPACITORS			
C156,256		Ceramic 80pF ±10% 50WV	2
C151,251		Ceramic 100pF ±10% 50WV	2
C354,355		Ceramic 220pF ±20% 50WV	2
C155,255, 152,252		Ceramic 0.001μF ±10% 50WV	4
C160,260		Ceramic 0.0039μF ±10% 50WV	2
C153,253		Ceramic 0.0047μF ±10% 50WV	2
C353		Mylar 0.0022μF ±10% 50WV	1
C157,257		Mylar 0.0082μF ±10% 50WV	2
C158,258		Mylar 0.01μF ±10% 50WV	2
C351,352		Mylar 0.022μF ±10% 50WV	2
C159,259		Mylar 0.022μF ±20% 50WV	2

PARTS LIST

Key. No.	Part No.	Description	Q'ty
C105,205		Aluminum Electrolytic 0.47μF ±20% 10WV	2
C101,102 106,107 201,202 206,207		Electrolytic 1μF +150–10% 16WV	8
C108,109 208,209		Electrolytic 4.7μF +150–10% 16WV	4
C103,104 203,204		Electrolytic 10μF +100–10% 16WV	4
C304		Electrolytic 22μF +100–10% 16WV	1
C110,210		Electrolytic 33μF +100–10% 16WV	2
C305,306		Electrolytic 47μF +100–10% 16WV	2
C302,303		Electrolytic 220μF +100–10% 16WV	2
C301		Electrolytic 1000μF +100–10% 25WV	1
RESISTORS			
All resistors are Carbon P type ±10% ¼W unless otherwise noted.			
R303		8.2 ohm	1
R302		Solid 8.2 ohm ±10% ½W	1
R306		Solid 39 ohm ±10% ½W	1
R131,231		180 ohm	2
R110,210		560 ohm	2
R112,132 137,212, 232		1.2K ohm	5
R119,219		1.5K ohm	2
R114,214		1.8K ohm	2
R102,127 202,227 301,305 133,233		2.2K ohm	8
R126,226		2.7K ohm	2
R125,128 130,225 228,230		3.3K ohm	6
R115,116 138,124, 136,238 215,216 224,236		4.7K ohm	10
R106,108 206,208		8.2K ohm	4
R105,111 118,121 205,211 218,221		10K ohm	8
R107,207		12K ohm	2
R109,209 307		15K ohm	3
R304		18K ohm	1
R129,229		33K ohm	2
R113,213		47K ohm	2
R120,220		56K ohm	2
R123,223		120K ohm	2
R103,104 203,204		220K ohm	4
R101,201 135,235		470K ohm	4
R117,217		1M ohm	2
DOLBY PCB ASSY			
117	140-9-230T-50000	Printed Circuit Board Assembly, Dolby	2
L401,451	4-252T-05600	Choke Coil 36mH	2
L402,452	4-252T-02800	Choke Coil 23mH	2
		IC NE545B	2
D401,451		Diode 1S188 AM	2
CAPACITORS			
C417,467		Ceramic 90pF ±10% 50WV	2
C418,468		Ceramic 220pF ±20% 50WV	2
C414,464		Mylar 0.0022μF ±10% 50WV	2
C415,465		Mylar 0.0027μF ±10% 50WV	2
C416,466		Mylar 0.0039μF ±10% 50WV	2
C411,461		Mylar 0.0047μF ±5% 50WV	2
C412,462		Mylar 0.0056μF ±5% 50WV	2
C413,463		Mylar 0.027μF ±5% 50WV	2
C419,469		Mylar 0.047μF ±10% 50WV	2

Key. No.	Part No.	Description	Q'ty
C405,455 408,458		Electrolytic 0.1μF ±20% 10WV	4
C409,459		Electrolytic 0.33μF ±20% 10WV	2
C401,451		Electrolytic 1μF +150–10% 16WV	2
C403,453 406,456 407,457 402,452		Electrolytic 10μF +100–10% 16WV	8
C410,460		Electrolytic 220μF +100–10% 10WV	2
RESISTORS			
All resistors are Carbon P type ±10% ¼W unless otherwise noted.			
R411,461		120 ohm	2
R406,456		180 ohm	2
R401,451 402,452		1K ohm	4
R404,454		3.3K ohm	2
R405,455		47K ohm	2
R403,453		100K ohm	2
R410,460		150K ohm	2
R408,458		270K ohm	2
R409,459		680K ohm	2
R407,457		1M ohm	2
PRE AMP PCB ASSY			
118	140-9-230T-50100	Printed Circuit Board Assembly, Pre Amp.	1
Q601,602 651,652		Transistor 2SC1571 G	4
CAPACITORS			
C606,608 656,658		Ceramic 100pF ±10% 50WV	4
C605,655		Ceramic 560pF ±10% 50WV	2
C607,657		Ceramic 0.0068μF ±10% 50WV	2
C601,604 651,654		Electrolytic 4.7μF +150–10% 16WV	4
C603,653		Electrolytic 10μF +100–10% 16WV	2
C602,652		Electrolytic 47μF +100–10% 6.3WV	2
C611		Electrolytic 220μF +100–10% 16WV	1
RESISTORS			
All resistors are Carbon P type ±10% ¼W unless otherwise noted.			
R603,653		180 ohm	2
R605,655		820 ohm	2
R611		1K ohm	1
R609,659		4.7K ohm	2
R606,656		6.8K ohm	2
R608,658		33K ohm	2
R601,651		82K ohm	2
R602,652		100K ohm	2
R604,654		220K ohm	2
R607,657		680K ohm	2
MONITOR PCB ASSY			
119	140-9-230T-50200	Printed Circuit Board Assembly Monitor	1
Q701,702 751,752		Transistor 2SC1571 G	4
CAPACITORS			
C706,708 756,758		Ceramic 100pF ±10% 50WV	4
C705,755		Ceramic 680pF ±10% 50WV	2
C707,757		Ceramic 0.0018μF ±10% 50WV	2
C709,759		Ceramic 0.0039μF ±10% 50WV	2
C701,751		Electrolytic 4.7μF +150–10% 16WV	2
C703,753		Electrolytic 10μF +100–10% 16WV	2
C702,752		Electrolytic 47μF +100–10% 6.3WV	2
C711		Electrolytic 220μF +100–10% 16WV	1

PARTS LIST

Key. No.	Part No.	Description	Q'ty
		RESISTORS	
		All resistors are Carbon P type ±10% ¼W unless otherwise noted.	
R703,753		180 ohm	2
R705,755		820 ohm	2
R711		1K ohm	1
R710,760		5.6K ohm	2
R706,756		6.8K ohm	2
R709,759		12K ohm	2
R708,758		22K ohm	2
R701,751		82K ohm	2
R702,752		100K ohm	2
R704,754		220K ohm	2
LINE OUT PCB ASSY			
120	140-9-230T-50300	Printed Circuit Board Assembly, Line Out	1
L801,851	4-252T-05200	Choke Coil, Bias Trap	2
Q801,851		Transistor 2SC945 Q	2
Q802,852		Transistor 2SC536AUD G	2
Q803,853		Transistor 2SC1317 R	2
D801		Diode DS-442	1
		CAPACITORS	
C811,861		Ceramic 330pF ±10% 50WV	2
C803,853		Electrolytic 1μF +150–10% 16WV	2
C801,802		Electrolytic 4.7μF +150–10% 16WV	4
851,852			
C812		Electrolytic 47μF +100–10% 16WV	1
C813		Electrolytic 100μF +100–10% 16WV	1
		RESISTORS	
		All resistors are Carbon P Type ±10% ¼W unless otherwise noted.	
R802,852		100 ohm	2
R861		220 ohm	1
R807,857		Solid 680 ohm ±10% ½W	2
R805,855		1K ohm	2
R803,812		3.3K ohm	3
853			
R811		6.8K ohm	1
R804,806		47K ohm	4
854,856			
R801,851		820K ohm	2
LAMP RELAY PCB ASSY			
121	140-9-230T-50400	Printed Circuit Board Assembly Lamp Relay	1
	4-237T-00100	Terminal	4
TAPE SWITCH PCB ASSY			
122	140-9-230T-49800	Printed Circuit Board Assembly, Tape Switch	1
	4-237T-00100	Terminal	11
C501,504		Mylar 0.01μF ±10% 50WV	2
C502,503		Mylar 0.027μF ±20% 50WV	2
C505,506		Mylar 0.0047μF ±10% 50WV	2
R501,503		Carbon 1.2K ohm ±10% ¼W	2
R502,504		Carbon 2.7K ohm ±10% ¼W	2
R505		Solid 150 ohm ±10% ½W	1
R506		Solid 27 ohm ±10% ½W	1
S12-1 ~12-6	4-231T-60500	Switch, Tape Select	1
R507,508		Carbon 6.8K ohm ±10% ¼W	2

Key. No.	Part No.	Description	Q'ty
SCREW MOUNTING			
Y1		Pan Head Screw 2.6x6mm	2
Y2		Pan Head Screw 3x6mm	6
Y3		Pan Head Screw 3x8mm	4
Y4		Pan Head Screw 3x10mm	2
Y5		Binding Head Screw 4x16mm	4
Y6		Tapping Screw 3x6mm	3
Y7		Tapping Screw 3x8mm	3
Y8		Tapping Screw 3x12mm	11
Y9		Nut 3mm	2
Y10		Fiber Washer 3.3x10x1mm	3
Y11		Pan Head Screw with Washer & Spring Washer 3x6mm	1
Y12		Tapping Screw with Washer 3x12mm	12
Y13		Tapping Screw 3x10mm	1
Y14		Tapping Screw 3x20mm	1
Y15		Pan Head Screw 3x14mm	2

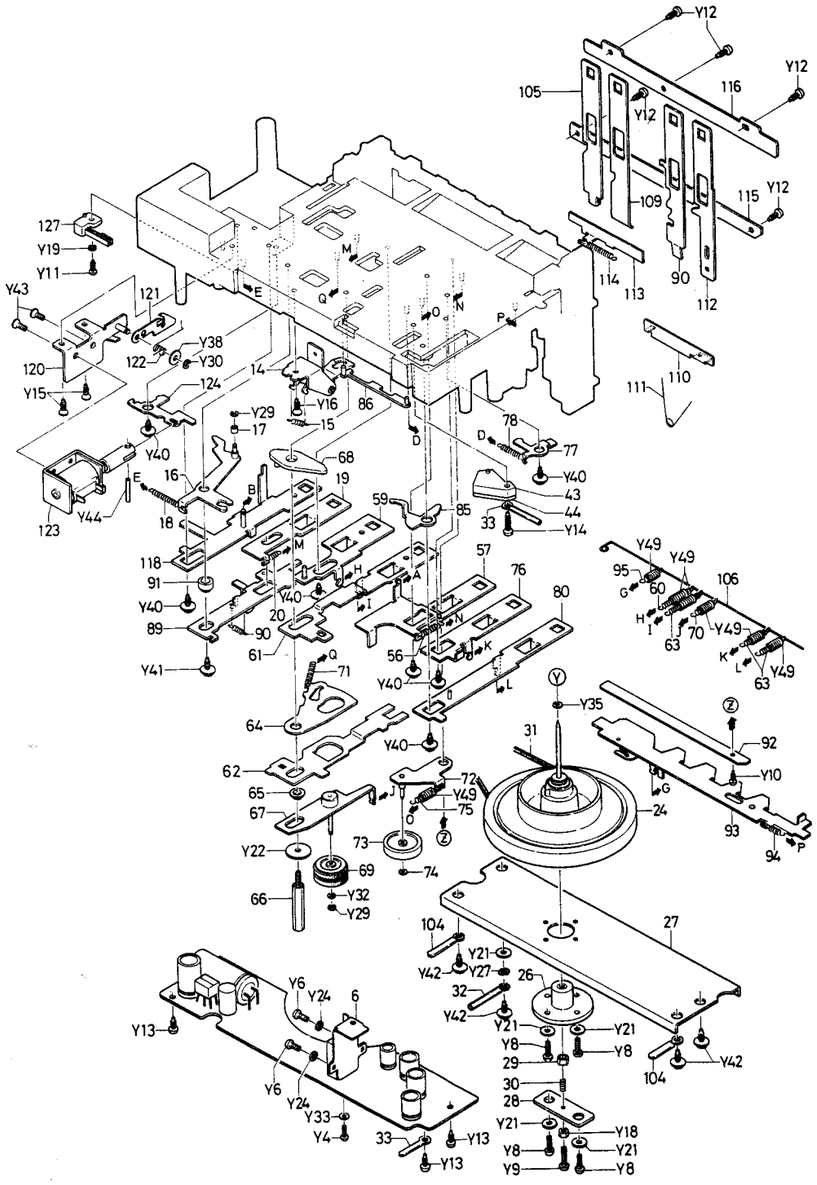
PARTS LIST

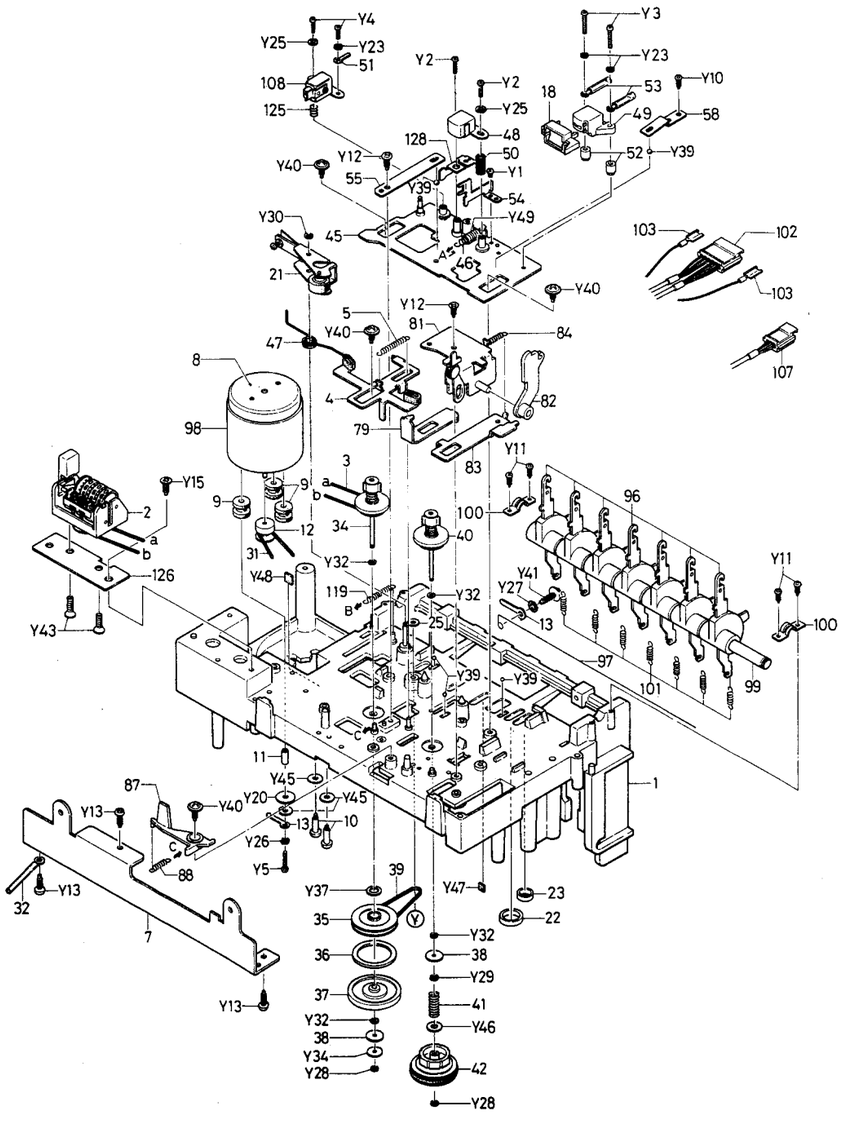
Key. No.	Part No.	Description	Q'ty
MECHANISM			
1	141-0-311T-223911	Chassis Assembly	1
2	141-2-811T-04700	Counter	1
3	141-2-564T-09200	Square Belt, Counter	1
4	141-0-731T-453910	Slide Assembly	1
5	141-2-851T-59600	Coil Spring, Slide (4) Restore	1
6	141-2-365T-34000	Bracket, Muting Switch Mtg.	1
7	141-2-315T-12700	Reinforcement	1
8	4-527T-09300	DC Motor	1
9	141-2-445T-07000	Rubber Cushion, Motor Mtg.	3
10	141-2-421T-12501	Special Screw, Motor Mtg.	2
11	141-2-461T-26700	Pipe, Motor Mtg.	1
12	141-0-661T-703910	Pulley Assembly	1
13	123-2-472R-00401	Lug, Motor & Button Ground	2
14	141-0-741T-957910	Lever Assembly	1
15	141-2-852T-42000	Coil Spring, Lever (14) Mtg.	1
16	141-0-741T-18500	Lever Assembly, Lever (14) Operation	1
17	141-2-683T-29800	Ring, Lever (16) Mtg.	1
18	141-2-821T-10800	Tape Guide, E Head Mtg.	1
19	141-2-731T-46600	Slide, STOP	1
20	141-2-851T-87700	Coil Spring, Slide (19) Restore	1
21	141-0-545T-02400	Lever Assembly, Pinch Roller	1
22	141-2-445T-18500	Rubber Cushion, Play Slide	1
23	141-2-445T-17400	Rubber Cushion, Record Slide	1
24	141-0-521T-06300	Flywheel Assembly	1
25	141-2-457T-04300	Special Washer, Flywheel Shaft Mtg.	1
26	141-2-577T-05000	Bracket, Flywheel Shaft Mtg.	1
27	141-2-524T-06800	Bracket, Flywheel Support	1
28	141-2-411T-07300	Plate Nut, Flywheel Bracket Mtg.	1
29	141-2-573T-06900	Shaft Bracket, Flywheel Bracket Mtg.	1
30	141-2-855T-02100	Coil Spring, Flywheel Bracket Mtg.	1
31	141-2-564T-16801	Main Belt, Motor to Flywheel	1
32	123-2-472R-00600	Lug, Flywheel Bracket Ground	1
33	141-2-472T-01201	Lug, Flywheel Lead Retainer	2
34	141-0-531T-05100	Reel Plate Assembly, Take Up	1
35	141-2-661T-16103	Pulley, F.FWD	1
36	141-2-452T-01200	Felt Washer, PLAY Slipper	1
37	141-2-661T-15201	Pulley, PLAY	1
38	141-2-457T-06200	Special Washer, Reel Plate (34) & Coil Spring (41) Support	2
39	141-2-562T-03300	Round Belt, Play Pulley	1
40	141-0-531T-05200	Reel Plate Assembly, Supply	1
41	141-2-851T-62900	Coil Spring, Back Tension	1
42	141-0-662T-02100	Roller Assembly, REW	1
43	141-2-374T-09901	Bracket, LED Mtg. Thick	1
44	141-2-374T-10001	Bracket, LED Mtg. Thin	1
45	141-0-731T-15900	Slide Assembly, Head Slide	1
46	141-2-851T-14000	Coil Spring, Slide (45, Restore	1
47	141-2-852T-37600	Wire Spring, Pinch Roller Pressure	1
48	4-242T-20571	REC/PLAY Head	1
49	4-242T-16800	ERASE Head	1
50	141-2-851T-49700	Coil Spring, REC/PLAY Head Mtg.	1
51	123-2-472R-00200	Lug, Head Ground	1
52	141-2-462T-41200	Boss E Head Stand	2
53	141-2-472T-05900	Lug, Head Lead Retainer	2
54	141-2-821T-10201	Tape Guide	1
55	141-2-853T-45401	Plate Spring, Head Slide (45) Pressure	1
56	141-2-855T-14000	Coil Spring, Play Slide (57) Restore	1
57	141-2-731T-46300	Slide, PLAY	1
58	141-2-853T-41400	Plate Spring, Head Slide (45) Pressure	1
59	141-0-731T-14300	Slide Assembly, F.FWD	1
60	141-2-851T-61300	Coil Spring, Slide (59) Restore	1
61	141-2-731T-46400	Slide, REW	1
62	141-2-731T-23401	Slide, REW Turn	1
63	141-2-851T-31500	Coil Spring, REC, EJECT & REW Slide Restore	3
64	141-2-741T-43001	Lever, F.FWD Pressure	1
65	141-2-462T-41300	Boss, Slide (67) Shaft	1
66	141-2-421T-19400	Special Screw, P.C.B Mtg.	1
67	141-0-421T-14400	Slide Assembly, F.FWD Pressure	1
68	141-2-741T-43102	Lever, REW Turn	1
69	141-0-662T-02200	Roller Assembly, REW & F.FWD	1
70	141-2-851T-47802	Coil Spring, Slide (67) Mtg.	1
71	141-2-855T-10400	Coil Spring, Lever (64) Mtg.	1
72	141-0-741T-18700	Lever Assembly, REW Lever	1
73	141-2-661T-14902	Pulley, REW	1
74	141-2-457T-04100	Special Washer, Lever (72) Mtg.	1
75	141-2-851T-31600	Coil Spring, Lever (72) Restore	1
76	141-2-731T-46200	Slide, REC	1
77	141-2-741T-93100	Lever, Safty Recording	1
78	141-2-855T-05000	Coil Spring, Lever (77) Restore	1
79	141-2-731T-45200	Slide, Recording Perceive	1
80	141-0-731T-14800	Slide Assembly, EJECT	1
81	141-0-741T-18600	Lever Assembly, EJECT	1
82	141-2-741T-93300	Lever, Cam	1
83	141-2-731T-46900	Slide, Stopper	1
84	141-2-855T-05100	Coil Spring, Slide (83) Mtg.	1
85	141-2-741T-93400	Lever, EJECT Slide (80) Mtg.	1
86	141-2-731T-47200	Slide, Lever (87) Drive	1
87	141-2-741T-94200	Lever, Cassette Pressure	1
88	141-2-855T-05400	Coil Spring, Lever (87) Restore	1
89	141-0-731T-15400	Slide Assembly, Auto Stop	1
90	141-2-731T-55201	Slide, PLAY	1
91	141-2-462T-41000	Boss, Slide (89) Mtg.	1
92	141-2-737T-04700	Bracket, Button Slide Fixer	1
93	141-0-731T-14600	Slide Assembly, Lock-Slide	1
94	141-2-851T-74000	Coil Spring, Slide (93) Restore	1
95	141-2-851T-31600	Coil Spring, Kick Lever of Slide (93) Restore	1
96	141-2-741T-96800	Lever, Push Button	7
97	141-2-852T-38800	Wire Spring, Push Button Lever Ground	1
98	141-2-322T-34200	Shield Plate, Motor Mtg.	1
99	141-2-612T-03600	Shaft, Push Button Lever Mtg.	1
100	141-2-853T-45200	Plate Spring, Shaft (99) Mtg.	2
101	141-2-855T-04800	Coil Spring, Push Button Lever Restore	7
102	4-235T-43200	Socket, REC/PLAY Head	1
103	4-235T-34600	Socket, ERASE Head	2
104	141-2-472T-01201	Lug	2
105	141-2-731T-45600	Slide, STOP	1
106	141-2-735T-10400	Rod, Slide Restore's Hook	1
107	4-235T-43300	Socket 3P, Monitor Head	1
108	4-242T-20600	Monitor Head	1
109	141-2-731T-45801	Slide, Prevent Miss Operation F.FWD – PLAY	1
110	141-2-731T-47400	Slide, Prevent Miss Operation F.FWD – PLAY	1
111	141-2-852T-37000	Wire Spring, Slide (110) Restore	1
112	141-2-731T-45700	Slide, REC	1
113	141-2-731T-45501	Slide, Prevent Miss Operation PLAY – REC	1
114	141-2-851T-59701	Coil Spring, Slide (113) Restore	1
115	141-2-731T-04600	Bracket, Slide (105,109,112) Fixer Up-side	1
116	141-2-737T-04800	Bracket, Slide Fixer Down-side	1
118	141-0-731T-14701	Slide Assembly, PAUSE	1
119	141-2-851T-73800	Coil Spring, Slide (118) Restore	1
120	141-0-369T-00300	Bracket, Solenoide Mtg.	1
121	141-2-614T-05300	Lever, PAUSE Lock	1
122	141-2-852T-35600	Wire Spring, Lever (121) Restore	1
123	4-264T-06800	Solenoide	1
124	141-2-741T-93702	Lever, PAUSE Lock Release	1
125	141-2-855T-10000	Coil Spring, Monitor Head (108) Adjust	1
126	141-2-812T-06400	Bracket, Counter Mtg.	1
127	4-231T-60200	Switch, PAUSE	1
128	141-2-352T-21900	Spacer, Monitor Head Mtg.	1
129	140-9-230T-96200	Printed Circuit Board Assembly, MECHANISM	1
	4-231T-50271	Switch, Monitor ON/OFF	1
	4-264T-06800	Solenoide	1
	4-237T-00100	Terminal, Wrapping Pin	12
Q901,902		Transistor 2SC536AUD G	2
Q903		Transistor 2SA608E	1
Q904		Transistor 2SC1317R,Q	1
		Photo Transistor PH101L	1
		Light Emitting Diode SLP114A 01B	1
D901		Silicon Rectifier DS-17	1
D902,903		Diode 1S188 AM	2
D904,906		Diode DS442	2
D905		Diode IN4001	1

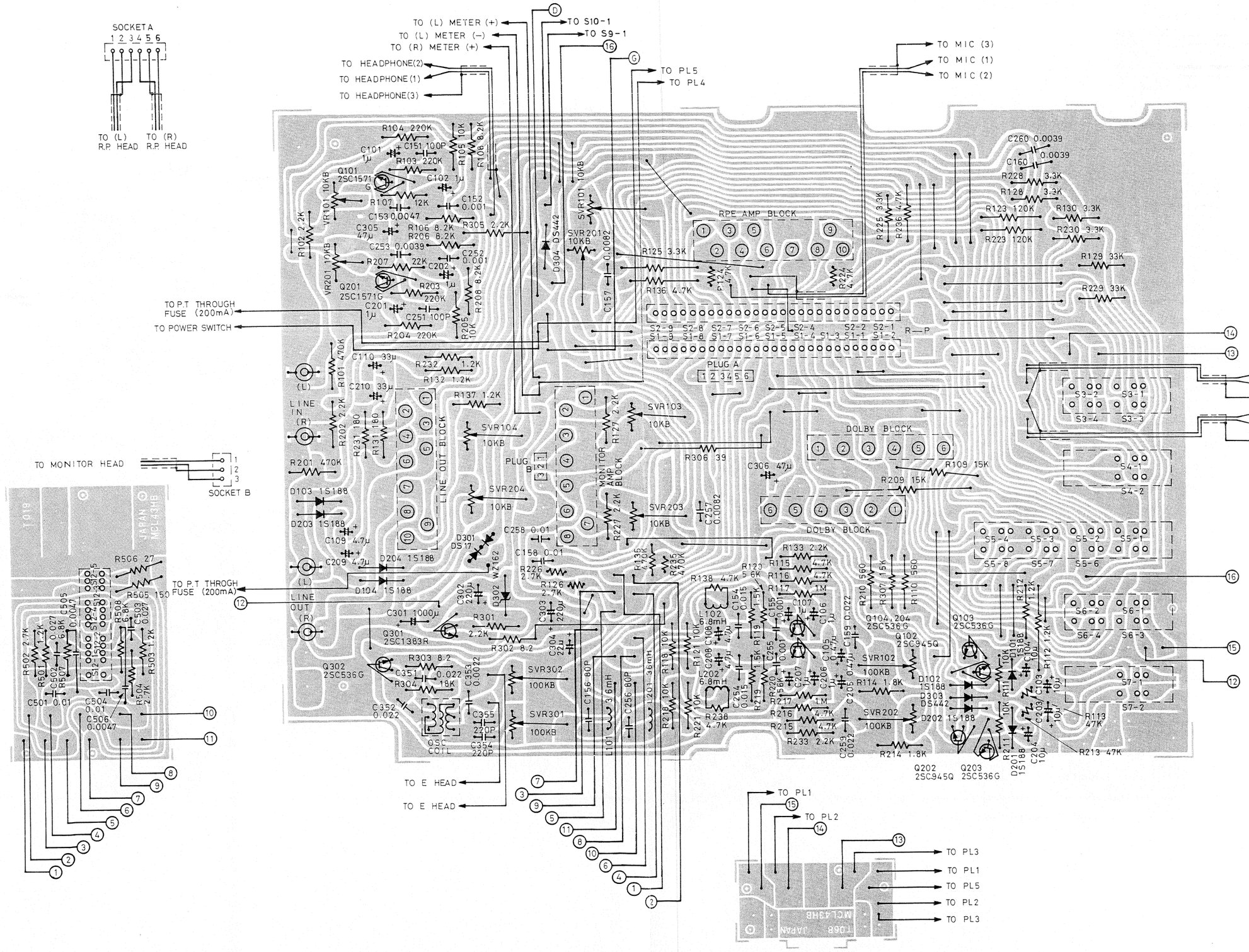
PARTS LIST

Key . No.	Part No.	Description	Q'ty
		CAPACITORS	
C903		Electrolytic 10μF 16WV	1
C906		Electrolytic 33μF 16WV	1
C904		Electrolytic 47μF 16WV	1
C905		Electrolytic 100μF 10WV	1
C902		Electrolytic 100μF 16WV	1
C901		Electrolytic 470μF 25WV	1
		RESISTORS	
		All resistors are carbon P type ±10% ¼W unless otherwise noted.	
R912		100 ohm	1
R901		120 ohm	1
R911		Solid 390 ohm ±10% ½W	1
R905		820 ohm	1
R902		Solid 820 ohm ±10% ½W	1
R904		Solid 1.8K ohm ±10% ½W	1
R907,914		2.7K ohm	2
R910		4.7K ohm	1
R913		10K ohm	1
R908		12K ohm	1
R903		18K ohm	1
R909		22K ohm	1
R906		100K ohm	1
MECHANISM SCREWS			
Y 1		Pan Head Screw 2x2mm	1
Y 2		Pan Head Screw 2x8mm	2
Y 3		Pan Head Screw 2x12mm	2
Y 4		Pan Head Screw 2x6mm	3
Y 5		Pan Head Screw 2.6x12mm	1
Y 6		Pan Head Screw 3x4mm	2
Y 8		Pan Head Screw 3x8mm	4
Y 9		Pan Head Screw 3x10mm	1
Y10		Tapping Screw 2.3x6mm	4
Y11		Tapping Screw 2.3x8mm	3
Y12		Tapping Screw 3x6mm	9
Y13		Tapping Screw 3x8mm	3
Y14		Tapping Screw 3x14mm	1
Y15		Flat Head Tapping Screw 3x6mm	2
Y16		Flat Head Tapping Screw 3x8mm	1
Y18		Nut 3mm	1
Y19		Washer 2.3x4.3x0.4mm	1
Y20		Washer 2.6x10x0.5mm	1
Y21		Washer 3x8x0.5mm	5
Y22		Washer 3x13x1mm	1
Y23		Spring Washer 2mm	4
Y24		Spring Washer 3mm	2
Y25		Internal Tooth Lock Washer 2.6mm	2
Y26		External Tooth Lock Washer 2.6mm	1
Y27		External Tooth Lock Washer 3mm	2
Y28		"E" Ring 1.2mm	2
Y29		"E" Ring 1.5mm	3
Y30		"E" Ring 2mm	2
Y32		Graphite Nylon Washer 2.1x4x0.25mm	6
Y33		Fiber Washer 2.1x5x0.3mm	1
Y34		Graphite Nylon Washer 2.1x8.5x0.25mm	1
Y35		Graphite Nylon Washer 2.6x4.7x0.5mm	1
Y37		Graphite Nylon Washer 5.2x8.5x0.25mm	1
Y38		Fiber Washer 3x8x0.5mm	1
Y39		Still Ball 2mm	5
Y40		Tapping Screw with Washer 3x6mm	12
Y41		Tapping Screw with Washer 3x8mm	2
Y42		Tapping Screw with Washer 3x10mm	4
Y43		Flat Head Screw 3x6mm	4
Y44		Spring Pin 2φx14mm	1
Y45		Washer 3x8x1mm	3
Y46		Graphite Nylon Washer 5.2x8x0.13mm	1
Y47		Rubber Cushion 3x4x1mm	1
Y48		Rubber Cushion 5.5x5.5x1mm	1
Y49		Vinyl Tube 4x12mm	8

EXPLODED VIEW (MECHANISM)






SOCKET A
1 2 3 4 5 6
TO (L) R.P. HEAD
TO (R) R.P. HEAD
TO (L) METER (+)
TO (L) METER (−)
TO (R) METER (+)
TO HEADPHONE(2)
TO HEADPHONE(1)
TO HEADPHONE(3)
TO S10-1
TO S9-1
TO PL5
TO PL4
TO MIC (3)
TO MIC (1)
TO MIC (2)
TO P.T THROUGH FUSE (200mA)
TO POWER SWITCH
TO MONITOR HEAD
SOCKET B
LINE IN (L)
LINE IN (R)
LINE OUT (L)
LINE OUT (R)
TO P.T THROGH FUSE (200mA)
TO E HEAD
TO E HEAD
RPE AMP BLOCK
PLUG A
PLUG B
LINE OUT BLOCK
MONITOR AMP BLOCK
DOLBY BLOCK
R—P
TO VR102 (1)
TO VR102 (2)
TO VR102 (3)
TO VR202 (2)
TO VR202 (1)
TO VR202 (3)
TO PL1
TO PL2
TO PL3
TO PL1
TO PL5
TO PL2
TO PL3
Q101 2SC1571G
Q201 2SC1571G
Q301 2SC1383R
Q302 2SC536G
Q102 2SC945Q
Q104,204 2SC536G
Q103 2SC536G
Q202 2SC945Q
Q203 2SC536G
D304 DS442
D301 DS17
D302 WZ162
D303 DS442
SVR101 10KB
SVR201 10KB
SVR103 10KB
SVR104 10KB
SVR204 10KB
SVR203 10KB
SVR302 100KB
SVR301 100KB
SVR102 100KB
SVR202 100KB
L101 3.6mH
L201 36mH
L102 6.8mH
L202 6.8mH
S2-9 S2-8 S2-7 S2-6 S2-5 S2-4 S2-2 S2-1
S1-9 S1-8 S1-7 S1-6 S1-5 S1-4 S1-3 S1-1 S1-2
S3-2 S3-1 S3-4 S3-3
S4-1 S4-2
S5-4 S5-3 S5-2 S5-1 S5-8 S5-7 S5-6
S6-2 S6-1 S6-4 S6-3
S7-1 S7-2
R104 220K
R103 220K
R107 12K
R207 22K
R203 220K
R204 220K
R232 1.2K
R132 1.2K
R137 1.2K
R306 39
R109 15K
R209 15K
R125 3.3K
R136 4.7K
R124 4.7K
R224 4.7K
R225 3.3K
R226 4.7K
R260 0.0039
R160 0.0039
R228 3.3K
R128 3.3K
R123 120K
R223 120K
R130 3.3K
R230 3.3K
R129 33K
R229 33K
R133 2.2K
R115 4.7K
R116 4.7K
R117 1M
R138 4.7K
R120 5.6K
R119 1.5K
R219 1.5K
R220 56K
R217 1M
R216 4.7K
R215 4.7K
R233 2.2K
R114 1.8K
R214 1.8K
R210 560
R307 15K
R110 560
R212 1.2K
R111 10K
R112 1.2K
R113 47K
R213 47K
C101 1μ
C102 1μ
C151 100P
C152 0.001
C153 0.0047
C305 47μ
C253 0.0039
C252 0.001
C202 1μ
C201 1μ
C251 100P
C157 0.0082
C110 33μ
C210 33μ
C209 4.7μ
C109 4.7μ
C258 0.01
C158 0.01
C257 0.0082
C306 47μ
C302 220μ
C303 220μ
C304 22μ
C301 1000μ
C351 0.022
C352 0.022
C353 0.0022
C354 220P
C355 220P
C156 80P
C256 80P
C154 0.015
C155 0.001
C107 1μ
C106 1μ
C108 4.7μ
C208 4.7μ
C254 0.015
C255 0.001
C207 1μ
C206 1μ
C105 0.47μ
C205 0.47μ
C159 0.022
C259 0.0022
C103 10μ
C104 10μ
C203 10μ
C204 10μ
R101 470K
R201 470K
R202 2.2K
R231 180
R131 180
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R227 2.2K
R126 2.7K
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R505 150
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R508 6.8K
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C504 0.01
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C503 0.027
D103 1S188
D203 1S188
D204 1S188
D104 1S188
D101 1S188
D102 1S188
D303 DS442
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D201 1S188
VR101 10KB
VR201 10KB
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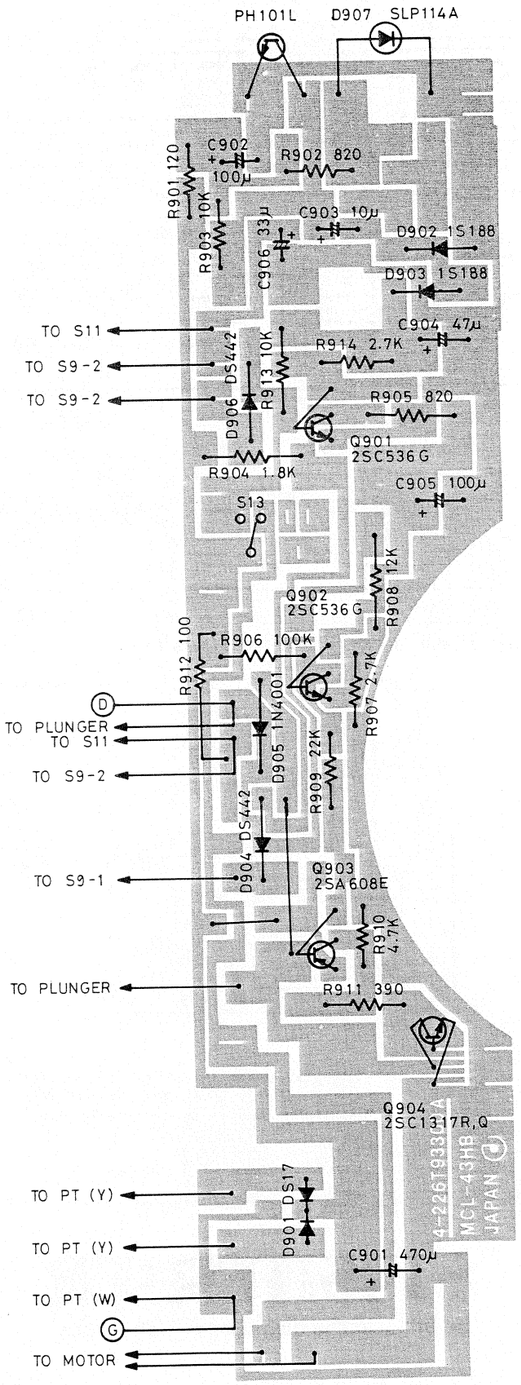

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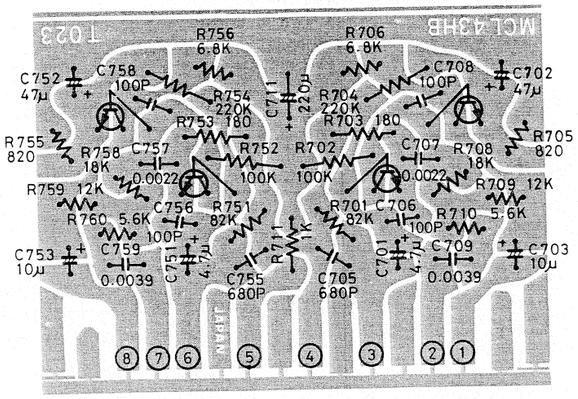

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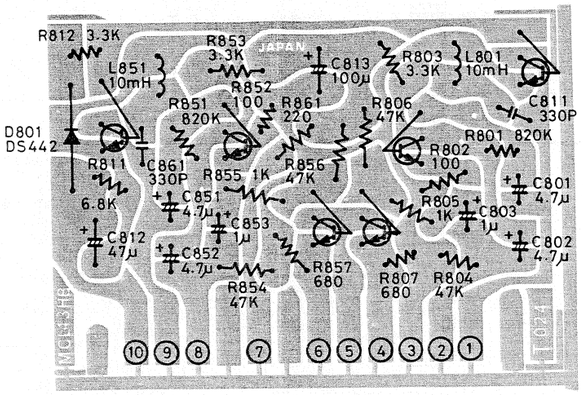
MONITOR BLOCK

Q851,801 2SC945Q



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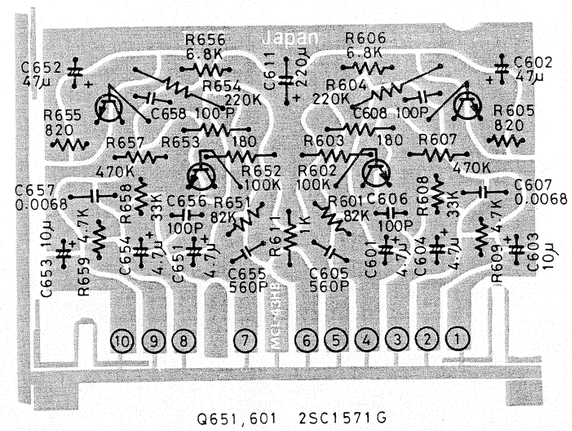
Q853,803 2SC1317R

LINE OUT BLOCK

Q652,602 2SC1571G



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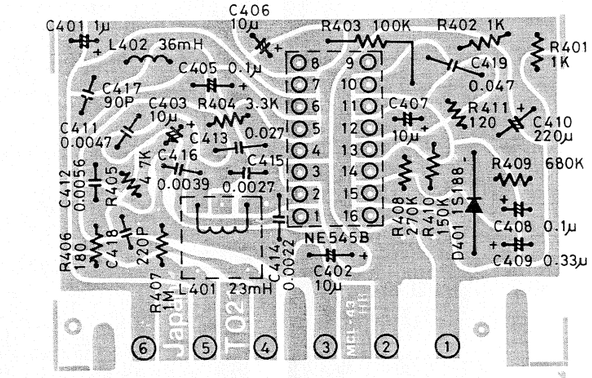
PRE AMP. BLOCK



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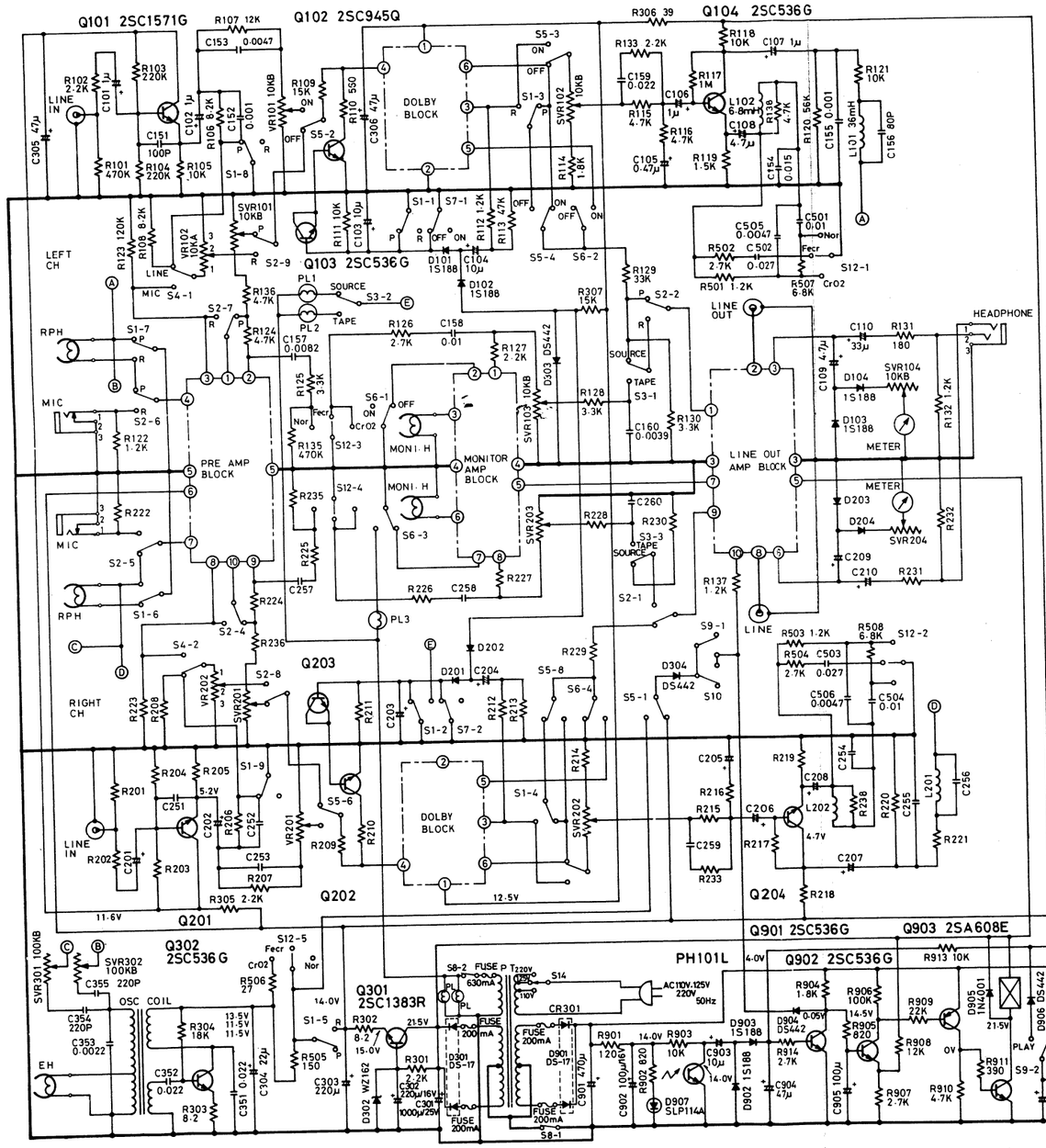

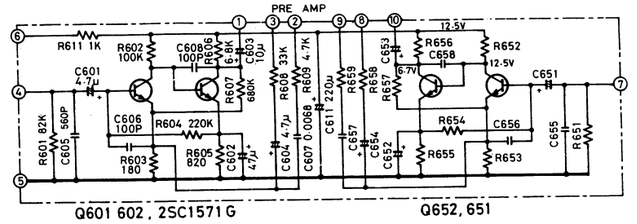

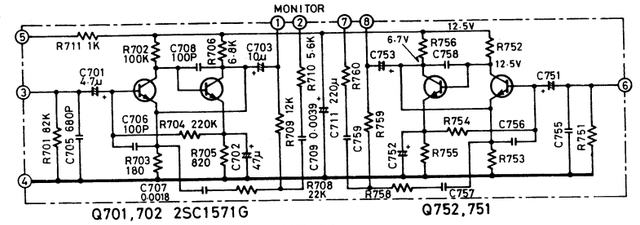

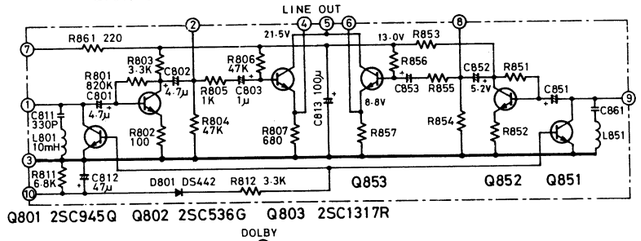

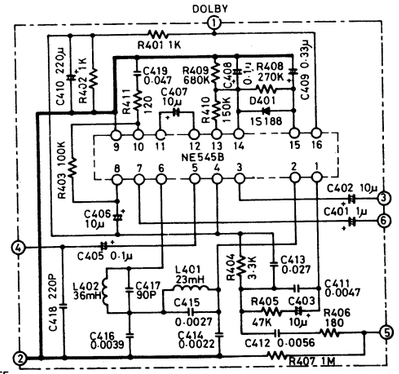

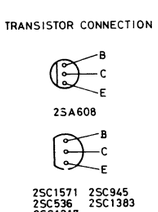

S1-1~1-9 ..... RECORD/PLAY SWITCH (S2-3 NO USED)
S2-1~2-9 ..... TAPE/SOURCE SWITCH (S3-4 NO USED)
S3-1~3-4 ..... LINE/MIC SWITCH
S4-1~4-2 ..... DOLBY FM SWITCH (S5-5 NO USED)
S5-1~5-8 ..... DOLBY N-R SWITCH
S6-1~6-4 ..... LIMITER SWITCH
S7-1~7-2 ..... POWER SWITCH
S8 ..... PLAY SWITCH
S9-1~9-2 ..... STOP SWITCH (S10-2 NOUSE)
S10-1~10-2 ..... PAUSE SWITCH
S11 ..... TAPE SWITCH
S12-1~12-5 ..... MECHANISM SWITCH
S13 ..... VOLTAGE SELECT SWITCH
S14 ..... VOLTAGE SELECT SWITCH

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WIDENMAYERSTRAßE 25, 8000 MÜNCHEN 22, WEST GERMANY

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